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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/976,935

DATE: 11/06/2001

TIME: 14:33:11

Input Set : A:\36470A.txt

Output Set: N:\CRF3\11062001\I976935.raw

5 <110> APPLICANT: Staunton, et al.
8 <120> TITLE OF INVENTION: MATERIALS AND METHODS TO MODULATE LIGAND BINDING/ENZYMATIC
ACTIVITY
9 OF ALPHA/BETA PROTEINS CONTAINING AN ALLOSTERIC REGULATORY SITE
12 <130> FILE REFERENCE: 27866/36470A
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/976,935
C--> 16 <141> CURRENT FILING DATE: 2001-10-12 *OK*
18 <150> PRIOR APPLICATION NUMBER: US 60/239,750
19 <151> PRIOR FILING DATE: 2000-10-12
22 <160> NUMBER OF SEQ ID NOS: 34
25 <170> SOFTWARE: PatentIn version 3.1
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30 <212> TYPE: DNA
31 <213> ORGANISM: D156A
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37 <210> SEQ ID NO: 2
38 <211> LENGTH: 34
39 <212> TYPE: DNA
40 <213> ORGANISM: V254A
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46 <210> SEQ ID NO: 3
47 <211> LENGTH: 34
48 <212> TYPE: DNA
49 <213> ORGANISM: Q327A
51 <400> SEQUENCE: 3
52 gaagaccatt cagaacgcgc ttcgggagaa gatc 34
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 32
58 <212> TYPE: DNA
59 <213> ORGANISM: I332A
61 <400> SEQUENCE: 4
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66 <211> LENGTH: 32
67 <212> TYPE: DNA
68 <213> ORGANISM: F333A
70 <400> SEQUENCE: 5
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74 <210> SEQ ID NO: 6
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76 <212> TYPE: DNA
77 <213> ORGANISM: E336A
79 <400> SEQUENCE: 6
80 gaagatcttt gcgatcgcg gtactcagac agg 33
83 <210> SEQ ID NO: 7

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93 <211> LENGTH: 30
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95 <213> ORGANISM: Primer
97 <400> SEQUENCE: 8
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102 <211> LENGTH: 27
103 <212> TYPE: PRT
104 <213> ORGANISM: Amino acid insertion
106 <400> SEQUENCE: 9
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109 1 5 10 15
112 Val Leu Ile Cys Ile Gln Val Leu Val Arg Arg
113 20 25
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118 <212> TYPE: DNA
119 <213> ORGANISM: primer Eo26-H3
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128 <210> SEQ ID NO: 11
129 <211> LENGTH: 19
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131 <213> ORGANISM: primer Eo-24
133 <400> SEQUENCE: 11
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137 <210> SEQ ID NO: 12
138 <211> LENGTH: 25
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146 <210> SEQ ID NO: 13
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160 <400> SEQUENCE: 14

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161 gcgttaaagc ttcacagctc atcaccatgg gcccttggag cgcga      45
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167 <213> ORGANISM: Primer Ecad3'(Xho)
169 <400> SEQUENCE: 15
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183 <211> LENGTH: 24
184 <212> TYPE: DNA
185 <213> ORGANISM: primer MAdCAM-1 3'#5
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194 <213> ORGANISM: primer Mad5'Kozak
196 <400> SEQUENCE: 18
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203 <213> ORGANISM: Primer Mad 3' #6 Sal
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210 <211> LENGTH: 28
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212 <213> ORGANISM: Primer Alpha1.5
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218 <210> SEQ ID NO: 21
219 <211> LENGTH: 28
220 <212> TYPE: DNA
221 <213> ORGANISM: Primer Alpha1.3
223 <400> SEQUENCE: 21
224 ccagttgagt gctgcattct tgtacagg      28
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228 <211> LENGTH: 29
229 <212> TYPE: DNA
230 <213> ORGANISM: A1.5Nde
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233 atatcatatg gacatagtca tagtgctgg      29

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Input Set : A:\36470A.txt

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238 <212> TYPE: DNA
239 <213> ORGANISM: A1.3Bam
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246 <211> LENGTH: 29
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248 <213> ORGANISM: A2.5Nde
250 <400> SEQUENCE: 24
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255 <211> LENGTH: 32
256 <212> TYPE: DNA
257 <213> ORGANISM: A2.3Bam
259 <400> SEQUENCE: 25
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264 <211> LENGTH: 28
265 <212> TYPE: DNA
266 <213> ORGANISM: A1.I.Bam
268 <400> SEQUENCE: 26
269 cggatccccc acatttcaag tcgtgaat 28
272 <210> SEQ ID NO: 27
273 <211> LENGTH: 31
274 <212> TYPE: DNA
275 <213> ORGANISM: A1.I.Pst
277 <400> SEQUENCE: 27
278 gctgcagtca tattctttct cccagagttt t 31
281 <210> SEQ ID NO: 28
282 <211> LENGTH: 22
283 <212> TYPE: DNA
284 <213> ORGANISM: Primer specific for 5'EchPPK
286 <400> SEQUENCE: 28
287 gtagatgaca gtggcgtata tt 22
290 <210> SEQ ID NO: 29
291 <211> LENGTH: 23
292 <212> TYPE: DNA
293 <213> ORGANISM: Primer specific for 3'EchPPK
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296 gccttaccat ttgtttaatt tgt 23
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300 <211> LENGTH: 159
301 <212> TYPE: PRT
302 <213> ORGANISM: amino acid sequence of E. coli HPPK
304 <400> SEQUENCE: 30
306 Met Thr Val Ala Tyr Ile Ala Ile Gly Ser Asn Leu Ala Ser Pro Leu
307 1 5 10 15

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310 Glu Gln Val Asn Ala Ala Leu Lys Ala Leu Gly Asp Ile Pro Glu Ser
311          20          25          30
314 His Ile Leu Thr Val Ser Ser Phe Tyr Arg Thr Pro Pro Leu Gly Pro
315          35          40          45
318 Gln Asp Gln Pro Asp Tyr Leu Asn Ala Ala Val Ala Leu Glu Thr Ser
319          50          55          60
322 Leu Ala Pro Glu Glu Leu Leu Asn His Thr Gln Arg Ile Glu Leu Gln
323 65          70          75          80
326 Gln Gly Arg Val Arg Lys Ala Glu Arg Trp Gly Pro Arg Thr Leu Asp
327          85          90          95
330 Leu Asp Ile Met Leu Phe Gly Asn Glu Val Ile Asn Thr Glu Arg Leu
331          100         105         110
334 Thr Val Pro His Tyr Asp Met Lys Asn Arg Gly Phe Met Leu Trp Pro
335          115         120         125
339 Leu Phe Glu Ile Ala Pro Glu Leu Val Phe Pro Asp Gly Glu Met Leu
340          130         135         140
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344 145         150         155
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350 <213> ORGANISM: Histidine tag
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355 1          5          10
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360 <212> TYPE: DNA
361 <213> ORGANISM: 5'EcHisHPPK
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369 <212> TYPE: DNA
370 <213> ORGANISM: 3'EcXhoHPPK
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382 <211> LENGTH: 169
383 <212> TYPE: PRT
384 <213> ORGANISM: amino acid sequence of His(6)-HPPK gene
386 <400> SEQUENCE: 34
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392 Ala Ile Gly Ser Asn Leu Ala Ser Pro Leu Glu Gln Val Asn Ala Ala
393          20          25          30
396 Leu Lys Ala Leu Gly Asp Ile Pro Glu Ser His Ile Leu Thr Val Ser
397          35          40          45
400 Ser Phe Tyr Arg Thr Pro Pro Leu Gly Pro Gln Asp Gln Pro Asp Tyr

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/976,935

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Input Set : A:\36470A.txt

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L:15 M:270 C: Current Application Number differs, Replaced Current Application Number

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date